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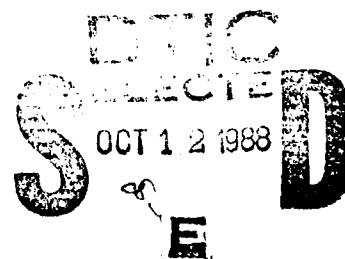
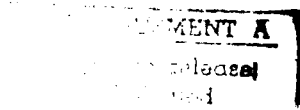
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IDA MEMORANDUM REPORT M-514

ON ESTIMATING THE COST OF SUPPORT EQUIPMENT

Richard T. Cheslow
Daniel B. Levine
Stanley A. Horowitz

September 1988



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IDA Independent Research Program

PREFACE

This report publishes the results of an investigation of the costs of procuring peculiar ground support equipment (PGSE) and automated test equipment (ATE). It presents data on a number of items of such equipment. It also presents the results of analyses to derive cost estimating relationships for PGSE and ATE.

The work was supported by IDA's fund for central research. The report was reviewed by the Cost Analysis and Research Division.

The authors gratefully acknowledge the aid given by the Facilities Equipment Branch of the Air Force Logistics Command, the Defense Logistics Services Center of the Defense Logistics Agency, and the Automatic Test Systems Division of the San Antonio Air Logistics Center in providing the data on ATE. They also wish to thank Dr. Stephen Balut for his valuable suggestions and comments and Mr. Robert Simmons for his substantial contributions to the form and style of the report.

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I. INTRODUCTION AND FINDINGS

A. INTRODUCTION

The purpose of this exploratory analysis was to develop relationships for estimating the procurement costs of certain items of support equipment, namely, peculiar ground support equipment (PGSE) and automated test equipment (ATE). The first task was to find and gather data on the procurement costs and the characteristics of the equipment, data which could be of use in developing cost estimating relationships (CERs). This was a time consuming and disappointing phase of the project. Cost analysis of support equipment has been a neglected area of defense cost analysis, and the armed services are only now beginning to construct data bases with consistent and complete information.

The second task was to use the data to construct CERs. Using the data sets in Appendixes A, B, and C, we constructed three types of relationships—one type for the cost of PGSE and two for the cost of ATE. In the first type, the procurement cost of PGSE was related to the quantity and unit cost of the aircraft subsystem the PGSE supported.¹ In the second type, the cost of ATE was related to the number of test program sets (TPS) used with the ATE and to the number of line replaceable units (LRUs) the ATE was designed to test. In the third type, the cost of ATE was related to the characteristics of the test equipment.

To estimate CERs for PGSE, we used regression analysis and historical budget data on 27 aircraft that were being procured during 1970-85. A separate regression analysis was carried out for each major subsystem of the aircraft—airframe, engine, and avionics.

To estimate CERs for ATE, we used regression analysis, again, and two different sets of data on ATE that were obtained from logistical organizations in the Air Force and from the Defense Logistics Agency. In the analysis of the relationship between the cost

¹ This analysis was an attempt to provide an alternative to the method the Office of the Secretary of Defense (OSD) uses to verify the services' projections of aircraft PGSE costs: calculating the ratio between the cost of PGSE and the cost of the aircraft and using these historical ratios as a yardstick to judge the reasonableness of current PGSE budgets.

and characteristics of ATE, separate regressions were performed on different characteristics of the equipment.

B. FINDINGS

The study's general finding is that the costs of support equipment can, in fact, be related to variables obtained from the kinds of data bases that are being constructed by the services. Our results offer some insight into how such costs are related to their determinants, and the CERs for PGSE are reliable enough to justify their use for forecasting.

The study's specific findings are as follows:

1. The cost of procuring PGSE is closely related to the quantity and the unit cost of the subsystem the PGSE supports. The relationship holds for each major subsystem of an aircraft—airframe, engine, and avionics.
2. The cost of procuring ATE is generally related to the number of line replaceable units the ATE is designed to test, but not to the number of test program sets.
3. The unit cost of depot-level ATE is closely related to the volume of the equipment. On the other hand, the cost of ATE is poorly related to the equipment's year of installation (a proxy for year initially procured and thus level of technology) as well as its weight, surprising findings that might change with more and better data.

II. COSTS OF PECULIAR GROUND SUPPORT EQUIPMENT

A. DATA

To estimate the CERs for PGSE costs, we used yearly figures on procurement of aircraft and PGSE from FY 1970 through FY 1985 in 24 Navy and 3 Air Force programs. The data (Appendix A) are given by major subsystem:²

- Quantity of aircraft procured
- Airframe costs
- Airframe PGSE costs
- Engine costs
- Engine PGSE costs
- Avionics (electronics) costs
- Avionics PGSE costs.

We calculated "total" variables by summing the yearly figures over the total period for each subsystem of each aircraft. The costs were escalated to constant FY 1988 dollars before summation.

B. COST ESTIMATING RELATIONSHIPS

The CERs for aircraft PGSE are presented below. Only 20 data points were used because seven of the aircraft programs had only fragmentary data and so we eliminated them from the analysis. Costs are in millions of FY 1988 dollars. The independent variable "AC" stands for the number of aircraft procured. The figures in parentheses under the explanatory variables are the levels of statistical significance (calculated from t-statistics)

² Although these figures were obtained from budget documents, we used entries in the "prior year" column, which are close to actual expenditures. For example, the figures listed for FY 1973 in Appendix A were taken from the budget submitted to the Congress in 1975.

for the regression coefficients (the exponents). We used an exponential specification because we found that it fit the data better.³

$$\text{Airframe PGSE cost} = .013 (\text{AC})^{1.32} (\text{unit airframe cost})^{1.19} \quad R^2 = .81$$

(.1%) (.1%)

$$\text{Engine PGSE cost} = .097 (\text{AC})^{.95} (\text{unit engine cost})^{.65} \quad R^2 = .84$$

(.1%) (1%)

$$\text{Avionics PGSE cost} = .67 (\text{AC})^{.85} (\text{unit avionics cost})^{.78} \quad R^2 = .88$$

(.1%) (.1%).

The airframe equation, for example, relates what the services spent during 1970-85 to procure PGSE for the airframe of an aircraft to the number of aircraft procured during the period and the unit cost of procuring the airframe, obtained by dividing the total cost of airframes by the number of aircraft procured. The equation estimates that, given recent budget trends, the services have been spending roughly \$220 million dollars on PGSE to support a buy of 200 airframes costing \$10 million each ($.013 \times 200^{1.32} \times 10^{1.19} = \220).

We are interested in how well these equations explain the data used to estimate them and thus how well the equations might predict the future in the absence of large changes in unmeasured variables. (Inflation is not one of these unmeasured variables, since all costs are in FY 1988 dollars.) The R^2 of .81 for the airframe equation, for example, shows that the number of aircraft and the unit cost of the airframe together explain 81 percent of the variability in the program cost of the airframe PGSE. The predictive powers of the engine and avionics equations are even higher.

Moreover, the t-statistics of the three equations show that the numbers of aircraft and the unit costs of the airframe, engine, and avionics are highly related to the PGSE costs. For convenience, we have shown the levels of statistical significance rather than the t-statistics themselves. These figures show that, although there were only 20 data points, the exponents of the explanatory variables in these equations pass statistical significance at the 0.1-percent level (except for the 1-percent level for unit engine cost in the second equation). In empirical studies, a 10-percent level is customarily regarded as "good," a 1-percent level is "excellent", and a 0.1-percent level is beyond reproach. In other words, it

³ The CERs in this paper were obtained by linear regression on the variables transformed to natural logarithms. To obtain the equation for airframe PGSE cost, for example, we estimated $\ln(\text{airframe PGSE cost}) = a + b \ln(\text{AC}) + c \ln(\text{unit airframe cost})$ and then took the antilog of the result.

is highly unlikely that the explanatory variables in the equations presented above are *not* predictors of the cost of PGSE.

Given that we are using exponential relationships, the values of the exponents have a simple interpretation for forecasting. In the airframe equation, for example, a 10-percent increase in the number of aircraft procured would lead to a 13-percent increase (10×1.32) in the total cost of airframe PGSE. Similarly, a 10-percent increase in the unit cost of the airframe would lead to a 12-percent increase (10×1.19) in the total cost of airframe PGSE. The fact that these exponents have high statistical significance gives us some confidence in using these relationships to forecast the percentage change in PGSE cost associated with changes in number of aircraft procured and the unit airframe cost.

On the other hand, it is surprising that, in contrast with engine and avionics PGSE costs, an increase in the unit airframe cost and, especially, in the number of aircraft procured should lead to a greater than proportional increase in airframe PGSE cost. Because of economies of scale, we should expect that an increase in the number of aircraft procured would lead to a less than proportional increase in PGSE cost. Further research is needed to examine why this was not the result for airframes.

III. COSTS OF AUTOMATED TEST EQUIPMENT

A. DATA

We constructed two data sets to relate the costs of ATE to potential explanatory variables. Data on each item that is being managed under the Air Force's Modular Automated Test Equipment (MATE) concept were supplied by the Automatic Test Systems Division at the San Antonio Air Logistics Center. From these data we constructed the variables in Appendix B:

- Number procured
- Unit cost
- Number of test program sets (TPSs)
- Number of line replaceable units (LRUs).

The other set (in Appendix C) includes the following data on every item of ATE stocked at depots (Air Logistics Centers) that has a unit cost over \$100,000:

- National Stock Number (NSN)
- Unit cost in then-year dollars
- Year installed
- Volume (cubic feet)
- Weight, for only a few items (pounds).

The stock numbers, costs, and years were provided by the Facilities Equipment Branch of the Air Force Logistics Command. We grouped items by NSN and used their costs and installation years to derive a single, representative cost and installation date for each NSN. Where there were several units of an item with the same cost but different installation dates, we assumed that they were from the same procurement lot and chose the single cost for the NSN. This cost was escalated to FY 1988 dollars by use of the deflator for "Other Procurement, Air Force." The earliest installation date observed for the lot was used to select the value of the deflator.

Because the level of technology is a major determinant of the cost of equipment in general, we sought a variable to capture the level of technology of the ATE and used the

earliest installation date as a proxy measure for this purpose. The procurement date would have been a better proxy for the level of technology when the item was designed and built, but it was not available.

Where several units with the same NSN had *different* costs on different installation dates, we assumed that they were from different lots and thus represented independent measures of cost. We escalated each cost to FY 1988 and took a simple average to obtain the representative cost for that NSN. The first installation year was chosen to depict technology, as before.⁴

The Defense Logistics Services Center provided the data on volume and weight, the latter for only a few items.

As a final step, on the assumption that the relation between the cost and characteristics of ATE varies with the type of equipment, we assigned each item to one of the following classes and used dummy variables to control for this variable: component (tube, power supply, etc.), T1; engine tester, T2; electronic subsystem tester, T3; maintenance fixture, T4; and inertial navigation set tester, excluded case.

B. REGRESSION RESULTS

The equations listed below show the results of the regression analyses designed to relate the cost of ATE to explanatory variables: in Equation 1, the number of LRUs; in Equation 2a, the volume and type of equipment; and in Equation 2b, the weight of the equipment. The statistical results of these equations are poorer than those of the CERs for PGSE costs; the values of R^2 are lower and the measures of statistical significance are not as strong. Moreover, the equations do not include several variables that were tried and found to be poorly related to the cost of ATE.

1. ATE Cost Versus TPSs and LRUs

The results of this analysis were as follows. Eight data points were used.

$$\begin{aligned} \text{ATE cost} &= .23 \text{ LRU}^{.61} & R^2 &= .35 \\ & (10\%) \end{aligned}$$

⁴ There were several "mixed" cases in which some items came from the same lot (had the same costs) but there were several lots. Here, we simply took an average of the various lot costs in constant dollars. For the measure of initial installation year we selected the earliest year among all items in all lots.

The equation shows that ATE cost was somewhat related to the number of LRUs the equipment is designed to test. The number of test program sets is not included because its coefficient had low statistical significance.

2. ATE Cost Versus ATE Characteristics

The results of the analyses of ATE costs and characteristics are shown below. Eighty-one data points were used in the first analysis; seven, in the second.

$$\text{a. ATE cost} = .302 (\text{volume})^{.12} (.59)^{T1} (.22)^{T2} (.56)^{T4} \quad R^2 = .23$$

(1%) (5%) (5%) (1%)

$$\text{b. ATE cost} = .0169 (\text{weight})^{.51} \quad R^2 = .31$$

(20%)

We can be confident that volume is a predictor of ATE cost, since its exponent is statistically significant at the 1-percent level (Equation 2a). The value of the exponent, 0.12, implies that a 10-percent increase in volume leads to a 1.2-percent ($10 \times .12$) increase in ATE cost.

The levels of significance of the dummy variables are also high, which demonstrates the importance of controlling for the type of equipment in future work.⁵ The third dummy variable (T3) is not included because of low statistical significance, which indicates that electronic subsystem testers have a similar relationship between ATE cost and volume to that of inertial navigation set testers, the excluded case.

The year of installation is also excluded from Equation 2a, again because its coefficient was found to have low statistical significance. This suggests that the level of technology has little effect on ATE cost, a somewhat surprising result.

The fact that weight has low statistical significance in Equation 2b is surprising, in that the costs of many defense systems, including entire ships, are estimated by applying cost-per-pound factors to various items of equipment, or weight groups. The sample size is small, however. Note also that the volume of the equipment, which proved quite reliable in Equation 2a, is not included in the regression expressed in Equation 2b because its coefficient had a very low level of statistical significance when weight was included. This

⁵ The dummy variables for the types of equipment were entered linearly in the regression equation: $\ln(\text{ATE cost}) = a + b \ln(\text{volume}) + c(T1) + d(T2) + e(T4)$.

suggests that further research, conducted with more and better data, should re-examine the question whether volume, weight, or both, provide better predictions of ATE cost.

APPENDIX A
PECULIAR GROUND SUPPORT EQUIPMENT

Fiscal Year	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
A-4M																
Quantity	49	24	0	0	44	0	0	3	21	0						
Cost (mill. T¥)																
Airframe/CFE	44.91	20.80	0.00	0.00	55.60	0.00	0.00	7.19	50.31	0.00						
Airframe PGSE	1.36	0.74	0.00	0.00	0.77	0.00	0.00	0.00	1.37	0.74						
Engines	14.31	8.81	0.00	0.00	15.01	0.00	0.00	0.00	0.00	0.00						
Engine PGSE	0.67	0.45	0.00	0.00	0.31	0.00	0.00	0.00	0.10	0.08						
Electronics	3.18	1.66	0.00	0.00	15.41	0.00	0.00	0.69	9.65	0.00						
Avionics PGSE	2.38	2.75	0.00	0.00	1.41	0.00	0.00	0.00	9.59	7.19						
A-6E																
Quantity	12	12	12	21	13	12	11	0	6	12	12	12	12	8		
Cost (mill. T¥)																
Airframe/CFE	50.03	50.97	51.79	73.85	49.04	51.40	54.58	0.00	44.64	71.17	79.43	53.22	122.11	125.30	94.23	
Airframe PGSE	15.29	34.20	11.53	23.70	23.92	19.28	33.64	0.00	0.00	13.00	9.61	11.52	18.08	10.62	29.04	
Engines	5.86	6.50	6.45	13.87	8.75	9.98	10.10	0.00	7.15	14.86	20.18	11.20	25.56	29.42	17.87	
Engine PGSE	0.16	0.34	0.13	0.14	0.34	0.26	0.04	0.00	0.00	0.09	0.04	0.05	0.05	0.39	0.20	
Electronics	0.82	2.02	5.07	8.86	13.94	18.64	27.00	0.00	18.44	34.78	37.38	21.90	49.82	53.96	34.29	
Avionics PGSE	4.29	1.60	1.07	3.47	3.57	1.50	6.09	0.00	0.00	5.97	3.87	5.52	2.44	6.97	10.06	
A-7E																
Quantity	27	30	24	48	30	30	30	6	30	12	12					
Cost (mill. T¥)																
Airframe/CFE	44.22	51.42	45.03	92.16	58.55	58.05	65.78	14.51	84.99	48.00	44.50					
Airframe PGSE	28.55	20.37	5.24	2.09	9.36	9.91	10.51	0.00	14.16	12.64	9.82					
Engines	11.80	13.38	9.36	27.84	18.64	18.70	25.03	6.17	33.60	16.29	18.94					
Engine PGSE	1.35	0.89	0.16	0.23	0.28	3.03	0.48	0.00	0.62	2.45	3.28					
Electronics	3.25	3.71	3.70	18.57	18.82	16.37	22.25	3.36	18.36	9.24	8.17					
Avionics PGSE	7.28	7.74	1.25	3.76	3.74	1.62	3.19	0.00	19.21	10.14	1.43					
AH-1J																
Quantity									23	8						
Cost (mill. T¥)																
Airframe/CFE									41.44	16.15						
Airframe PGSE									6.44	3.85						
Engines									5.20	2.02						
Engine PGSE									0.47	0.00						
Electronics									2.03	0.42						
Avionics PGSE									0.85	0.00						
AV-8A																
Quantity	12	18	30	30	12											
Cost (mill. T¥)																
Airframe/CFE	12.17	22.37	38.20	42.29	16.29											
Airframe PGSE	1.30	3.55	4.00	3.71	5.20											
Engines	8.81	19.40	33.77	36.27	14.82											
Engine PGSE	0.93	0.43	1.90	2.06	0.69											
Electronics	5.64	9.09	13.34	8.16	2.07											
Avionics PGSE	0.55	4.29	0.90	1.72	0.57											

Fiscal Year	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
EC-1300																
Quantity							1	0	0	1	3	1	2	0		
Cost (mill. FY\$)							9.56	0.00	0.00	11.68	34.93	13.51	32.30	0.00		
Airframe/CFE							0.00	0.00	0.00	0.00	0.22	0.91	1.73	0.00		
Airframe PGSE							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Engines							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Engine PGSE							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Electronics							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Avionics PGSE							0.60	0.00	0.00	0.22	0.68	0.91	6.23	0.31		
F-14A																
Quantity		26	48	48	50	50	36	36	44	36	30	30	30	24		
Cost (mill. FY\$)							276.80	320.00	427.10	417.90	421.60	474.50	555.90	476.20	464.70	
Airframe/CFE							32.30	33.50	23.50	27.00	20.30	5.60	18.90	21.40	40.50	
Airframe PGSE							91.10	92.80	119.10	111.00	114.60	142.20	163.20	119.90	119.40	
Engines							2.10	3.00	1.20	7.60	5.30	0.30	4.50	3.80	2.30	
Engine PGSE							69.60	81.90	102.50	124.80	86.00	124.20	138.20	94.30	91.70	
Electronics							29.40	26.10	19.90	21.70	16.50	4.00	43.70	26.40	48.00	
Avionics PGSE																
F-15																
Quantity				30	62	72	108	108	97	78	60	42	36	39	36	42
Cost (mill. FY\$)				154.10	218.30	221.50	316.40	328.00	314.40	235.20	179.10	135.70	141.80	147.60	153.30	173.80
Airframe/CFE				19.20	29.90	1.00	31.40	15.30	0.00	8.70	5.40	0.00	5.10	41.80	21.30	8.50
Airframe PGSE				67.80	121.80	134.10	181.50	177.60	155.80	113.10	75.90	67.80	59.60	65.70	56.20	68.80
Engines				3.70	5.00	0.90	8.50	2.70	7.50	3.10	0.10	1.60	3.20	6.30	6.40	16.90
Engine PGSE				38.40	73.00	63.60	127.50	100.30	107.90	81.70	65.70	49.50	47.70	37.40	52.30	62.80
Electronics				0.00	0.00	0.80	19.60	30.20	31.10	28.60	1.60	1.20	20.50	25.10	9.10	57.30
Avionics PGSE																
F-16																
Quantity									105	145	175	180	120	120	144	150
Cost (mill. FY\$)																
Airframe/CFE									239.00	243.40	300.80	309.10	200.10	217.90	272.00	286.20
Airframe PGSE									146.20	105.00	13.70	50.20	74.20	74.00	81.50	35.80
Engines									122.90	152.80	211.90	235.50	157.10	129.00	149.30	201.90
Engine PGSE									10.30	33.40	5.00	10.70	13.70	11.20	14.00	15.50
Electronics									110.00	110.20	110.30	100.30	83.20	120.10	153.20	147.60
Avionics PGSE									13.10	10.10	4.70	6.40	14.90	10.60	15.10	6.30
F-4J																
Quantity																
Cost (mill. FY\$)																
Airframe/CFE																
Airframe PGSE																
Engines																
Engine PGSE																
Electronics																
Avionics PGSE																
F-4J																
Quantity																
Cost (mill. FY\$)																
Airframe/CFE																
Airframe PGSE																
Engines																
Engine PGSE																
Electronics																
Avionics PGSE																

Fiscal Year	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
F-5F																
Quantity								3								
Cost (mill. TY\$)																
Airframe/CFE								9.87								
Airframe PGSE								0.32								
Engines								0.00								
Engine PGSE								0.52								
Electronics								0.00								
Avionics PGSE								0.28								
F/A-18																
Quantity										9	25	60	83	84	84	
Cost (mill. TY\$)										312.60	612.10	1,097.60	1,140.00	1,354.10	1,321.20	
Airframe/CFE										31.70	94.00	198.40	324.00	218.30	305.90	
Airframe PGSE										38.30	110.20	238.20	235.10	295.10	279.50	
Engines										3.70	15.80	11.70	16.90	79.40	8.60	
Engine PGSE										4.10	11.30	24.40	266.70	61.90	72.50	
Electronics										1.00	9.40	10.00	8.30	10.80	45.60	
Avionics PGSE																
KC-130R/T																
Quantity						6		4					4	2		
Cost (mill. TY\$)						28.95		31.25					64.00	37.29		
Airframe/CFE						0.28		0.30					0.00	0.00		
Airframe PGSE						5.10		0.00					0.00	0.00		
Engines						0.28		0.00					0.00	0.00		
Engine PGSE						2.93		0.00					0.00	0.48		
Electronics						0.47		0.70					0.00	0.00		
Avionics PGSE																
P-3C																
Quantity	23	12		12	12	12	11	3	12	12	12	12	12	9		
Cost (mill. TY\$)	101.00	66.69	0.00	49.56	56.84	62.80	68.50	20.04	82.80	104.02	99.91	112.80	151.00	167.34	192.95	
Airframe/CFE	11.34	4.25	0.00	1.24	0.93	3.53	3.89	0.28	5.20	3.01	7.74	6.93	4.61	8.11	16.50	
Engines	12.74	7.01	0.00	8.17	8.46	9.54	10.73	2.96	12.90	16.11	15.02	14.98	18.50	19.36	19.97	
Engine PGSE	0.39	0.25	0.00	0.72	0.19	0.27	0.58	0.14	2.30	0.10	1.50	1.94	0.82	0.00	1.10	
Electronics	47.23	28.57	0.00	32.60	39.60	49.11	44.32	11.68	55.81	69.94	69.34	73.37	83.08	89.09	114.31	
Avionics PGSE	9.56	7.30	0.00	3.86	0.60	1.10	3.82	1.28	12.72	21.97	21.98	20.16	10.18	10.41	15.00	
S-3A																
Quantity			13	35	45	45	41	0	0	0						
Cost (mill. TY\$)			188.78	302.47	334.71	347.15	366.09	0.00	0.00	0.00						
Airframe/CFE			21.93	20.31	14.17	17.03	43.62	0.00	0.00	0.00						
Engines			23.24	38.12	44.79	47.34	48.04	0.00	0.00	0.00						
Engine PGSE			4.26	3.95	1.56	0.16	3.05	0.00	0.00	0.00						
Electronics			12.90	23.76	20.47	22.54	17.79	0.00	0.00	0.00						
Avionics PGSE			5.37	11.57	7.68	0.47	3.57	0.00	0.00	2.39						

Fiscal Year	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
SH-2F																
Quantity																
Cost (mill. TY\$)													18	18		
Airframe/CFE													114.83	95.53		
Airframe PGSE													5.55	9.46		
Engines													1.92	2.02		
Engine PGSE													0.35	0.65		
Electronics													18.09	19.30		
Avionics PGSE													1.50	2.35		
SH-60B																
Quantity													18			
Cost (mill. TY\$)													Total Cost			
Airframe/CFE													147.10			
Airframe PGSE													8.34			
Engines													24.66			
Engine PGSE													6.07			
Electronics													27.72			
Avionics PGSE													30.16			
T-34C																
Quantity						18	75	23	33	34		60	60	30		
Cost (mill. TY\$)						6.12	22.59	6.93	13.37	16.18		39.77	41.96	17.79		
Airframe/CFE						0.03	0.08	0.00	0.03	0.04		0.00	0.00	0.00		
Airframe PGSE						0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
Engines						0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
Engine PGSE						0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
Electronics						0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
Avionics PGSE						0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
T-44A																
Quantity												20				
Cost (mill. TY\$)																
Airframe/CFE												10.80				
Airframe PGSE												0.03				
Engines												0.00				
Engine PGSE												0.00				
Electronics												0.00				
Avionics PGSE												0.00				
TH-57																
Quantity												32	30	21		
Cost (mill. TY\$)												14.32	19.03	12.93		
Airframe/CFE												0.00	0.00	0.00		
Airframe PGSE												0.00	0.00	0.00		
Engines												0.00	0.00	0.00		
Engine PGSE												0.00	0.00	0.00		
Electronics												0.00	0.00	0.00		
Avionics PGSE												0.00	0.00	0.00		

Fiscal Year	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
UC-12B																
Quantity																
Cost (mill. FY\$)																
Airframe/CFE									22	22	22					
Airframe PGSE									20.52	22.58	23.94					
Engines									0.00	2.89	1.00					
Engine PGSE									0.00	0.00	0.00					
Electronics									0.00	0.00	0.00					
Avionics PGSE									0.00	0.00	0.00					
UH-1H																
Quantity		15	24	24	24	15	24	6	12							
Cost (mill. FY\$)																
Airframe/CFE		5.89	10.38	11.44	12.08	10.12	16.59	4.37	10.39							
Airframe PGSE		0.33	0.31	0.39	0.48	0.10	0.59	0.00	1.66							
Engines		1.52	3.12	3.55	3.39	2.44	4.57	1.17	2.60							
Engine PGSE		1.44	0.23	0.42	0.30	0.12	0.32	0.00	0.76							
Electronics		0.59	1.00	0.85	0.94	1.00	1.52	0.36	0.81							
Avionics PGSE		0.95	0.00	0.29	0.34	0.12	0.88	0.00	1.78							

APPENDIX B
AIR FORCE MODULAR AUTOMATED TEST EQUIPMENT

System	Number of Units	Total Contract Cost	Number of TPSs	Total TPS Cost	Number of LRUs	Unit System Cost
ETIAS	238	17	11	Incl.	N/A	0.071
F-111 AIS	22	417	190	Incl.	190	18.955
GSM-285	2	9	500	N/A	500	4.5
MR-1505	7	5.8	12	Incl.	59	0.829
TEMS	376	47	38	5.5	N/A	0.14
USM-607	13	11.8	19	0.98	12	0.983
USM-430	400	75	N/A	Incl.	N/A	0.1875
IFF Tester	2060	30.9	13	0.75	N/A	0.015
UPM-141	100	7.5	0	N/A	3	0.075
CAST	68	78	156	Incl.	41	1.147
ATSJEA III	1	4	3	Incl.	41	4
ATSJEA II Upgr.	6	3.3	21	Incl.	21	0.55
ADINTS	30	50	12	Incl.	5	1.667
AWEST	103	38.9	163	Incl.	N/A	0.378
AVID	2	7	N/A	0	N/A	3.5
MIDATS	22	50.3	180	Incl.	31	2.286
TACAN Tester	500	30	0	N/A	1	0.06
NOTES						
"Incl."		Cost of TPSs is included in Total Contract Cost				
"Unit System Cost"		Total Contract Cost plus Total TPS Cost divided by Number of Units				

APPENDIX C
AIR FORCE DEPOT-LEVEL AUTOMATED TEST
EQUIPMENT

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acq. Year	Volume (cu. ft.)	Weight (lbs.)	Dummy Variable
2015816	RCA	Burlington, MA	Aircraft engine test stand	1,000,000				
10349655	Raytheon	Lexington, MA	Klystron tube test set	152,275	77	144		T1
11908207	Raytheon	Lexington, MA	Electronic system test console	523,000	87			
10842613	GE	Burlington, VT	GAU-8A gun range test equip	408,900	82			
4015466	Bauer/Electro Inc	Farmington, CT	TF30 Eng. temperature simulator	37,000	69			
4015466	Bauer/Electro Inc	Farmington, CT	TF30 Eng. temperature simulator	108,924	81			
4015466	Bauer/Electro Inc	Farmington, CT	TF30 Eng. temperature simulator	108,924	82			
4015466	Bauer/Electro Inc	Farmington, CT	TF30 Eng. temperature simulator	98,201	83			
11186108	Bauer/Electro Inc	Farmington, CT	F-4, J-79 eng. fuel nozzle test stand	137,328	84			
11518400	Hamilton Standard	Windsor Locks, CT	B-52G/H environ. control sys. test set	139,800	85	3.77		T3
11518400	Hamilton Standard	Windsor Locks, CT	B-52G/H environ. control sys. test set	139,800	87	3.77		T3
1932320	Pratt & Whitney	E. Hartford, CT	TF30 engine fuel control stand	110,000	69			
1932320	Pratt & Whitney	E. Hartford, CT	TF30 engine fuel control stand	110,000	70			
1932320	Pratt & Whitney	E. Hartford, CT	TF30 engine fuel control stand	110,000	71			
5022246	Pratt & Whitney	E. Hartford, CT	High pressure air supply system	287,850	72			
2169192	Pratt & Whitney	E. Hartford, CT	F100 Eng. fuel access. test stand	106,478	74			
844070	Pratt & Whitney	E. Hartford, CT	Digital subassy. test stand	391,971	76			
2106324	Pratt & Whitney	E. Hartford, CT	F100 eng. fuel access. test stand	162,283	76			
3095394	Pratt & Whitney	E. Hartford, CT	F100 Eng. electronic control test st.	397,231	76			
4395435	Pratt & Whitney	E. Hartford, CT	F100 Eng. fuel nozzle test stand	160,686	76			
10245920	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. test set harness	112,196	78			
10036173	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. computer test set	153,091	79			
3095394	Pratt & Whitney	E. Hartford, CT	F100 Eng. electronic control test st.	525,000	80			
5058807	Pratt & Whitney	E. Hartford, CT	F100 Eng. test stand adaptor kit	127,958	80			
10220678	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. control test stand	236,011	80			
2106324	Pratt & Whitney	E. Hartford, CT	F100 eng. fuel access. test stand	262,729	81			
2169227	Pratt & Whitney	E. Hartford, CT	F100 Eng. speed sensor test st.	131,563	81			
2169241	Pratt & Whitney	E. Hartford, CT	F100 Eng. compon. maint. stand	158,389	81			
3095394	Pratt & Whitney	E. Hartford, CT	F100 Eng. electronic control test st.	525,000	81			
3095394	Pratt & Whitney	E. Hartford, CT	F100 Eng. electronic control test st.	525,000	82			
10036173	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. computer test set	178,834	82			
10596903	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. electronic control tester	437,750	82			
10598953	Pratt & Whitney	E. Hartford, CT	F/PW-100 eng. electronic cntrl therm lsir	122,261	82			
4395435	Pratt & Whitney	E. Hartford, CT	F100 Eng. fuel nozzle test stand	251,357	83			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu. ft.)	Weight (lbs.)	Dummy Variable
5022246	Pratt & Whitney	E. Hartford, CT	High pressure air supply system	287,850	83			
10036173	Pratt & Whitney	E. Hartford, CT	FPW-100 eng. computer test set	178,834	83			
10596903	Pratt & Whitney	E. Hartford, CT	FPW-100 eng. electronic control tester	437,750	83			
11111856	Pratt & Whitney	E. Hartford, CT	PWF-100-PW-200 eng. prog. gener.	313,300	83			
11128783	Pratt & Whitney	E. Hartford, CT	F-100/PW-100-200 eng. turb. comp. test	100,300	83	90		T2
2169227	Pratt & Whitney	E. Hartford, CT	F100 Eng. speed sensor test st.	131,563	84			
2106319	Pratt & Whitney	E. Hartford, CT	F100 engine control test stand	126,036				
2106320	Pratt & Whitney	E. Hartford, CT	F100 eng. fuel oil cooler test st.	205,050				
8187340	Lockheed Electronics	Plainfield, NJ	C-5A malfunction test set	164,443	69			
10461613	Singer-Kearfott	Little Falls, NJ	IMU test set	526,712	78			
16819	Singer-Kearfott	Little Falls, NJ	Radar test set	251,430	79	45		T3
10461614	Singer-Kearfott	Little Falls, NJ	IMU chassis adapter	106,252	79			
10490223	Singer-Kearfott	Little Falls, NJ	F-4. nertial nav. test sta.	1,442,000	79			
10711131	Singer-Kearfott	Little Falls, NJ	F-111D power supply test system	105,060	79			
1867080	Singer-Kearfott	Little Falls, NJ	Test and calibration assy.	600,000				
2135291	Singer-Kearfott	Little Falls, NJ	SRAM IMU test set	430,000				
4050989	Singer-Kearfott	Little Falls, NJ	SRAM gyro test console	150,000				
1070303	Allied-Bendix	Teterboro, NJ	Flight control test set	137,164	75	189		T3
10094802	Allied-Bendix	Teterboro, NJ	F/TF-15A Indicator-control test sta.	289,072	75			
5663064	Allied-Bendix	Teterboro, NJ	Microwave test sta.	3,529,381	76	350		T3
10081530	Allied-Bendix	Teterboro, NJ	F/TF-15A displays test sta.	1,609,675	79			
10094802	Allied-Bendix	Teterboro, NJ	F/TF-15A Indicator-control test sta.	1,067,861	81			
10081530	Allied-Bendix	Teterboro, NJ	F/TF-15A displays test sta.	4,315,551	82			
11874049	Allied-Bendix	Teterboro, NJ	F-15A/B/C/D computer test station	1,387,100	82			
10800236	Allied-Bendix	Teterboro, NJ	B-52 nav. system servo test set	103,000	83			
10857566	USA CECOM	Flt. Monmouth, NJ	B-52G/H flight line analyzer	224,467	81			
844008	Lear Siegler	Florham Park, NJ	Tape cartridge test set	114,345	81	39		T1
844008	Lear Siegler	Florham Park, NJ	Tape cartridge test set	114,345	84	39		T1
1565520	Lear-Siegler	Florham Park, NJ	Multiplexer test set	197,666		61		
10508382	RCA	New York, NY	E-3A automatic test set	1,703,310	81			
5741814	Industrial Acoustics	Bronx, NY	F/TF-15A engine noise suppressor	650,000	78			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu.ft.)	Weight (lbs.)	Dummy Variable
783189	IBM	Armonk, NY	A-7D computer test set	389,000	81			
10633569	Loral	Yonkers, NY	F-4G ECM digital card test console	336,747	83			
10640600	Loral	Yonkers, NY	F-4G ECM test console	570,998	83			
10641788	Loral	Yonkers, NY	F-4G ECM test console	699,496	83			
10860241	Gruuman	Bethpage, NY	EF-111A tactical jamming system tester	832,344	83	108		T3
10860242	Gruuman	Bethpage, NY	EF-111A TJS digital test console	387,316	83	36		T3
10860243	Gruuman	Bethpage, NY	EF-111A tactical jamming sys. RF tester	426,303	83	36		T3
10860244	Gruuman	Bethpage, NY	EF-111A tactical jamming sys. RF tester	271,987	83			
11351734	Gruuman	Bethpage, NY	EF-111A maintenance fixture	107,652	84			
11344386	Gruuman	Bethpage, NY	F-111A acft. maintenance fixture	157,000	86	67		T1
11354583	Gruuman	Bethpage, NY	EF-111A maintenance fixture	300,000	86			
10103146	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	240,000	78			
10103149	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	183,000	78			
10103474	Fairchild	Farmingdale, NY	A-10A nacelle holding fixture	128,000	78			
10104104	Fairchild	Farmingdale, NY	A-10 aircraft maintenance fixture	240,000	78			
10201262	Fairchild	Farmingdale, NY	A-10A bonding assembly jig	120,000	78			
10201263	Fairchild	Farmingdale, NY	A-10A nacelle maintenance fixture	120,000	78			
10201264	Fairchild	Farmingdale, NY	A-10A nacelle maintenance fixture	120,000	78			
10208565	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	132,000	78			
10217334	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	132,000	78			
10455752	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	113,000	78			
10104105	Fairchild	Farmingdale, NY	A-10 aircraft maintenance fixture	183,000	79			
10103147	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	240,000	81			
10103475	Fairchild	Farmingdale, NY	A-10A nacelle holding fixture	128,000	81			
10217339	Fairchild	Farmingdale, NY	A-10A nacelle bonding assembly jig	400,000	81			
10509279	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	113,300	81			
11041624	Fairchild	Farmingdale, NY	A-10A honeycomb core miller	513,351	84			
10103149	Fairchild	Farmingdale, NY	A-10A aircraft maintenance fixture	128,000	86			
10103475	Fairchild	Farmingdale, NY	A-10A nacelle holding fixture	128,000	86			
10104107	Fairchild	Farmingdale, NY	A-10 aircraft maintenance fixture	183,000	86			
11020550	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	137,825	86			
11020551	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	137,825	86			
11052770	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	101,455	86			
11201736	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	618,249	86			
11201737	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	618,249	86			
11261798	Fairchild	Farmingdale, NY	A-10A acft. maintenance fixture	363,300	86			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu. ft.)	Weight (lbs.)	Dummy Variable
11261799	Fairchild	Farmingdale, NY	A-10 adf. maintenance fixture	363,300	86			
11061766	Fairchild	Farmingdale, NY	A-10A HUD and controls tester	180,816	87			
10887066	Mechanical Tech. Inc	Latham, NY	TF-30 eng. vibration diagnostic test sys.	1,000,000	84			
10894476	CE	Utica, NY	Mock-up bench, AVM-25 radar test set	522,318	82			
12073133	Allied-Bendix	Utica, NY	KC-135 valve assembly test stand	151,725	87			
1260251	IBM	Owego, NY	Bomb navigation test sta.	1,210,000	69			
10368293	IBM	Owego, NY	F-4E RF test set	226,678	78			
10457098	IBM	Owego, NY	Countermeasures equip. test set	312,093	78			
10368293	IBM	Owego, NY	F-4E RF test set	226,678	82			
10457098	IBM	Owego, NY	Countermeasures equip. test set	312,093	82			
10488952	IBM	Owego, NY	F-4G AGERD page adaptor test set	113,300	82			
10566910	IBM	Owego, NY	F-4G, APR-38 receiver adaptor	1,665,000	82			
10944653	IBM	Owego, NY	B-52D nav/bomb computer test set	671,944	82			
10963931	IBM	Owego, NY	APR-38 receiver tester	1,565,600	82			
10488951	IBM	Owego, NY	F-4G AGERD receiver test set	596,370	84			
10500778	IBM	Owego, NY	APR-38 receiver adaptor	190,550	84			
2471227	CE	Binghamton, NY	A-7D test unit adaptor	177,255	79			
10072752	Moog	E. Aurora, NY	F/T/F-15A auxiliary test console	155,000	81			
10982736	Contraves Goerz Corp	Pittsburgh, PA	Automatic gyro test system	4,800,000	84			
4383812	USAF	Washington, DC	Jet engine performance test stand	202,100	84			
5288780	USAF	Washington, DC	Hydraulic system test stand	185,802	86			
10509276	Fairchild	Germantown, MD	Armament control sys. test set	135,000	83	11	233	T3
11206275	AAI	Hunt Valley, MD	F-4 air data computer test set	119,164	86			
10399938	Westinghouse	Hunt Valley, MD	AN/ASQ-153 laser test sta.	1,365,000	79			
10405048	Westinghouse	Hunt Valley, MD	AN/ASQ-153 environmtl cntrl test sta.	772,500	79			
10415808	Westinghouse	Hunt Valley, MD	AN/ASQ-153 power supply test sta.	618,000	79	64		T1
10533159	Westinghouse	Hunt Valley, MD	AN/ASQ-153(V) system test station	515,000	79			
10212961	Westinghouse	Hunt Valley, MD	AN/ALO-101(V)-B/10 test set	225,000	82			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acq. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
10461830	Westinghouse	Hunt Valley,MD	AN/ALQ-131(V) test set	790,540	82	232	2850	T3
10940991	Westinghouse	Hunt Valley,MD	Electronic system test console	133,333	82			
11023333	Westinghouse	Hunt Valley,MD	E-3A radar thermal slab. unit test set	233,681	82	236		T3
10928940	Westinghouse	Hunt Valley,MD	AN/ALQ-153(V) ECM digital analog test station	1,842,496	83			
10928941	Westinghouse	Hunt Valley,MD	AN/ALQ-153(V) ECM RF test station	1,000,000	83			
10932179	Westinghouse	Hunt Valley,MD	AN/ALQ-153(V) ECM oscillator test sta.	1,000,000	83			
10883622	Westinghouse	Baltimore,MD	F-16A/B pressure vessel thermal test sta.	1,000,000	82			
10883623	Westinghouse	Baltimore,MD	F-16A/B leak rate tester	309,000	82			
10952338	Westinghouse	Baltimore,MD	F-16 corona test sys.	154,500	82			
10880982	Westinghouse	Baltimore,MD	F-16A/B RF noise analyzer	530,021	84			
10896206	Westinghouse	Baltimore,MD	F-16 pulsed FM noise analyzer	202,293	85			
10952338	Westinghouse	Baltimore,MD	F-16 corona test sys.	284,913	85			
10879624	Westinghouse	Baltimore,MD	F-16A/B dielectric bath and filter	277,720	86			
8494756	Brunswick Corp	Marion,VA	RF power test set	378,732				
215110	Lockheed-Georgia	Marietta,GA	Engine test adaptor kit	198,268	82			
10456164	Lockheed	Marietta,GA	C-5A doppler radome test sta.	125,000				
10696559	Scientific-Atlanta	Atlanta,GA	F-16A/B radome electrical test system	1,561,148	83			
10983363	Scientific-Atlanta	Atlanta,GA	F-16A/B fire control radar antenna test sys.	862,544	83			
11192196	Scientific-Atlanta	Atlanta,GA	Range antenna to test antennas & radars	138,297	84			
11713029	WR-ALC	Robins AFB,GA	Digital-analog test system	532,131	86			
11162342	Liton	Apopka,FL	AN/AVQ-25 (Pave Tack) electronic test sta.	650,612	84			
11166179	Liton	Apopka,FL	AN/AVQ-25 (Pave Tack) laser system test sta.	393,090	85			
10794104	Honeywell	Huntsville,AL	B-52D AN/ASN-131 INS test set	160,550	81	101		X
10794104	Honeywell	Huntsville,AL	B-52D AN/ASN-131 INS test set	154,996	83	101		X
10794104	Honeywell	Huntsville,AL	B-52D AN/ASN-131 INS test set	152,997	83	101		X
10930874	Honeywell	Huntsville,AL	B-52 AN/ASN-136 velocity measurement unit tester	142,933	83			
10940968	Honeywell	Huntsville,AL	B-52 INS test set	196,456	83	101		X
11226732	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS mainten. fixture	750,000	83			
10794104	Honeywell	Huntsville,AL	B-52D AN/ASN-131 INS test set	151,492	84	101		X
10940968	Honeywell	Huntsville,AL	B-52 INS test set	196,456	84	101		X
11233875	Honeywell	Huntsville,AL	B-52 AN/ASN-136 gyro test table	846,351	84			
11233879	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS gyro test console	302,000	84			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
10794104	Honeywell	Huntsville,AL	B-52D AN/ASN-131 INS test set	151,492	86	101		X
10930874	Honeywell	Huntsville,AL	B-52 AN/ASN-136 velocity measurement unit tester	142,933	86			
10940968	Honeywell	Huntsville,AL	B-52 INS test set	196,456	86	101		X
11215688	Honeywell	Huntsville,AL	B-52 INS AN/USM-136 test sta. adapter	113,394	86			
11215694	Honeywell	Huntsville,AL	AN/ASN-136 INS load box	113,394	86			
11216770	Honeywell	Huntsville,AL	B-52 INS AN/USM-136 test sta. adapter	119,737	86			
11216772	Honeywell	Huntsville,AL	B-52 INS AN/USM-136 maint. fixture	119,737	86			
11216773	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS maint. fixture	113,394	86	0.01		T4
11217093	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS test adapter	113,394	86			
11217094	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS test adapter	119,737	86			
11221699	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS module test sta.	686,000	86			
11221965	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS test adapter	119,737	86			
11221966	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS test adapter	119,737	86			
11226732	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS maint. fixture	110,000	86			
11233875	Honeywell	Huntsville,AL	B-52 AN/ASN-136 gyro test table	846,551	86			
11233879	Honeywell	Huntsville,AL	B-52 AN/ASN-136 INS gyro test console	302,000	86			
11400127	Honeywell	Huntsville,AL	B-52 AN/ASN-136A digital avionics test sys.	824,695	86			
11402232	Honeywell	Huntsville,AL	B-52 test adapter	119,737	86			
11408649	Honeywell	Huntsville,AL	B-52 test adapter	113,394	86			
11617432	Honeywell	Huntsville,AL	B-52G/H corona test station	200,850	86	26		T1
11630216	Honeywell	Huntsville,AL	B-52G/H INS adapter kit assembly	495,000	86			
11891527	Honeywell	Huntsville,AL	B-52G/H accelerometer tester	161,000	86			
11891527	Honeywell	Huntsville,AL	B-52G/H accelerometer tester	110,000	87			
10930521	Avtron	Cleveland,OH	Aircraft generator test stand	277,873	82			
10930521	Avtron	Cleveland,OH	Aircraft generator test stand	278,388	82			
10930521	Avtron	Cleveland,OH	Aircraft generator test stand	280,160	82			
10930521	Avtron	Cleveland,OH	Aircraft generator test stand	277,873	84			
10930521	Avtron	Cleveland,OH	Aircraft generator test stand	277,873	85			
4208117	GE-Acft. Eng. Gr.	Cincinnati,OH	TF39 Eng. fuel pump test stand	180,405	67	1,092		T4
4202565	GE-Acft. Eng. Gr.	Cincinnati,OH	TF39 Eng. fuel control test stand	179,361	78	1,741		T4
169482	GE-Acft. Eng. Gr.	Cincinnati,OH	Hydraulic pump test stand	104,665	82	520		T4
169563	GE-Acft. Eng. Gr.	Cincinnati,OH	Fuel pump test stand	170,200	82			
169564	GE-Acft. Eng. Gr.	Cincinnati,OH	Fuel valve test stand	195,000	82	1,199		T4
10750513	GE-Acft. Eng. Gr.	Cincinnati,OH	J-79 eng. temperature amplifier test stand	300,000	82			
11448404	GE-Acft. Eng. Gr.	Cincinnati,OH	B-1B(F101-GE-102 eng.) nozzle actuator test stand	537,153	87	788		T4
11460701	GE-Acft. Eng. Gr.	Cincinnati,OH	F-101/GE-102 eng. grind machine assy.	1,000,000	87			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
10347733	Cincinnati Electronics	Cincinnati, OH	B-52 gyro test table	100,000	77			
11499981	Cincinnati Electronics	Cincinnati, OH	B-52A/C turret test stand	478,550	86			
11426589	Westinghouse	Lima, OH	E-3A generator control tester	211,656	85			
843094	GM-Detroit Diesel	Indianapolis, IN	Fuel control test stand	210,000	67			
8762437	GM-Detroit Diesel	Indianapolis, IN	Tf-41 eng. fuel control test stand	116,998	69			
632818	GM-Detroit Diesel	Indianapolis, IN	Fuel control test stand	102,000	83			
11072539	Magnavox	Fl. Wayne, IN	F-16 test adapter for data test set	140,253	84			
10844197	Testek	Livonia, MI	T-56 eng. fuel nozzle test stand	123,600	81			
11485481	Testek	Livonia, MI	79 engine fuel control test stand	212,385	83			
10441793	Lear Siegler	Grand Rapids, MI	AN/ARN-101 electronic test set	159,650	63			
669844	Lear Siegler	Grand Rapids, MI	Centrifuge tester	101,161	75	94		T1
10441793	Lear Siegler	Grand Rapids, MI	AN/ARN-101 electronic test set	155,000	82			
10705749	Rockwell-Collins	Cedar Rapids, IA	Maintenance bench set	250,000	80			
10705749	Rockwell-Collins	Cedar Rapids, IA	Maintenance bench set	250,000	81			
10762577	Litton-Clifton	Davenport, IA	Altimeter test set	473,697	82	0.74		T1
80022	Litton-Clifton	Davenport, IA	ATC radar test set	116,108		13		
4222731	Litton-Clifton	Davenport, IA	Altitude computer test stand	236,704				
9694684	Litton-Clifton	Davenport, IA	Computer test set	170,682		423		
11984821	Delco	Oak Creek, WI	Carousel IV E INS gyro test sta	524,400	85			
12029081	Delco	Oak Creek, WI	Carousel IV E INS gyro test sta	307,925	85	25		X
12037376	Delco	Oak Creek, WI	Carousel IV E INS component test sta.	645,345	85	54		X
12037377	Delco	Oak Creek, WI	Carousel IV E INS component test sta.	816,350	85	56		X
12066342	Delco	Oak Creek, WI	C-141/KC-135 gyro test station	888,580	85			
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,404	75	186		T3
15268	Honeywell, Inc.	Minneapolis, MN	Digital test sta.	383,200	76	186		T3
4686705	Honeywell, Inc.	Minneapolis, MN	Servo-amplifier & electronic tester	1,125,000	76			
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,404	78	186		T3
15268	Honeywell, Inc.	Minneapolis, MN	Digital test sta.	383,200	78	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,404	79	186		T3
5487701	Honeywell, Inc.	Minneapolis, MN	F-15 TEWS test sta.	971,803	79	408		T3

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (T\$)	Acqn. Year	Volume (cu. ft.)	Weight (lbs.)	Dummy Variable
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,404	80	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,400	81	186		T3
15268	Honeywell, Inc.	Minneapolis, MN	Digital test sta.	383,200	81	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	477,482	82	186		T3
11040215	Honeywell, Inc.	Minneapolis, MN	F-15 avionics depot test station	2,887,090	82			
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,400	83	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	477,482	83	186		T3
5487701	Honeywell, Inc.	Minneapolis, MN	F-15 TEWS test sta.	1,000,000	84	408		T3
10572348	Honeywell, Inc.	Minneapolis, MN	F-16A/B analog expanded memory sta.	385,646	84			
10857463	Honeywell, Inc.	Minneapolis, MN	F-15 radar warning recv. power test pkg.	107,000	84			
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	462,400	85	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	1,063,042	86	186		T3
15267	Honeywell, Inc.	Minneapolis, MN	Analog test sta.	725,181	87	186		T3
10832644	Northrop	Rolling Mdws., IL	Digital module test set	1,163,900	82			
10847157	Northrop	Rolling Mdws., IL	Analog module test set	2,430,800	82			
10847157	Northrop	Rolling Mdws., IL	Analog module test set	2,430,800	83			
11850762	Northrop	Rolling Mdws., IL	F-15 TEWS digital module test set	1,368,221	84			
11862430	Northrop	Rolling Mdws., IL	F-15 analog module test set	3,153,096	84	189		T3
11862431	Northrop	Rolling Mdws., IL	F-15 TEWS consolidated memory station	347,000	84			
11850762	Northrop	Rolling Mdws., IL	F-15 TEWS digital module test set	1,030,000	85			
11862430	Northrop	Rolling Mdws., IL	F-15 analog module test set	2,460,000	85	189		T3
11862431	Northrop	Rolling Mdws., IL	F-15 TEWS consolidated memory station	540,818	85			
10972350	Sundstrand	Rockford, IL	F-16A/B electronic component tester	110,291	81			
11013597	Sundstrand	Rockford, IL	C-5/F-16/E-3A/A-7D governor test sta.	125,660	84			
11013597	Sundstrand	Rockford, IL	C-5/F-16/E-3A/A-7D governor test sta.	125,660	85			
8639214	Emerson Electric	St. Louis, MO	Fire control system test set	103,692	74	4.41		T3
11201652	Emerson Electric	St. Louis, MO	B-52H system test group	121,674	83			
11344371	Emerson Electric	St. Louis, MO	AN/ASG-21 indicator and ballistics comp. tester	384,730	83			
11344385	Emerson Electric	St. Louis, MO	AN/ASG-21 LRU test station	384,730	83			
11201652	Emerson Electric	St. Louis, MO	B-52H system test group	121,674	84			
11344372	Emerson Electric	St. Louis, MO	QQ-314/GSM-292 fire cntrl. radar trans. tester	384,730	84	58		T3
11344373	Emerson Electric	St. Louis, MO	QQ-314/GSM-292 fire cntrl. radar trans. tester	384,730	84	88		T3
11344384	Emerson Electric	St. Louis, MO	AN/ASG-21 fire & sys. control test sta.	212,377	84	58		T3
4021802	McDonnell Douglas	St. Louis, MO	F-4C Radar power test set	200,000	65			
10037416	McDonnell Douglas	St. Louis, MO	F-4E digital system test sta.	827,000	74			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu.ft.)	Weight (lbs.)	Dummy
475891	McDonnell Douglas	St. Louis, MO	Fuel accessories test stand	287,600	75	813		T4
3772943	McDonnell Douglas	St. Louis, MO	Test stand adaptor kit	445,000	75	1,30		T4
2271782	McDonnell Douglas	St. Louis, MO	Video-microwave test sta.	1,054,900	76	204	5500	T3
2445045	McDonnell Douglas	St. Louis, MO	Avionics station	378,000	76	155		T3
2271782	McDonnell Douglas	St. Louis, MO	Video-microwave test sta.	1,954,900	77	204	5500	T3
3991270	McDonnell Douglas	St. Louis, MO	Wing frame alignment kit	130,165	77	243		T4
10315871	McDonnell Douglas	St. Louis, MO	F/T/F-15A two-place overhaul frame	143,074	77	382		T4
10347724	McDonnell Douglas	St. Louis, MO	F-15A maintenance stand	143,100	77			
3773079	McDonnell Douglas	St. Louis, MO	Aircraft maintenance fixture	395,800	78	2,440		T4
3773082	McDonnell Douglas	St. Louis, MO	Aircraft maintenance fixture	318,200	78	2,440		T4
10446203	McDonnell Douglas	St. Louis, MO	F-4E digital test sta.	216,300	78			
3991270	McDonnell Douglas	St. Louis, MO	Wing frame alignment kit	112,200	79	243		T4
10208626	McDonnell Douglas	St. Louis, MO	F/T/F-15A fuselage wing lug ream kit	111,000	79			
10217895	McDonnell Douglas	St. Louis, MO	F/T/F-15A fuselage wing lug ream kit	111,000	79			
10770734	McDonnell Douglas	St. Louis, MO	F-15C/D act. mainl. fixt.	125,248	80	56	250	T4
10446203	McDonnell Douglas	St. Louis, MO	F-4E digital test sta.	216,300	81			
11111906	McDonnell Douglas	St. Louis, MO	F-15 hydraulic servo test station	400,000	81			
10575226	McDonnell Douglas	St. Louis, MO	F-4G AN/APR-38 test bench	182,800	82	75		T3
11002298	McDonnell Douglas	St. Louis, MO	F/T/F-15 digital module test package	245,500	82			
11042908	McDonnell Douglas	St. Louis, MO	F-15C/D fuel tank test rig	196,508	83			
9510941	McDonnell Douglas	St. Louis, MO	Computer test set	145,000	85	2.88		T1
11259414	McDonnell Douglas	St. Louis, MO	F-4 aft canopy fixture	150,342	85			
11263065	McDonnell Douglas	St. Louis, MO	F-4 act. maintenance fixture	138,778	85			
4021802	McDonnell Douglas	St. Louis, MO	F-4C Radar power test set	320,000	86			
3901366	McDonnell Douglas	St. Louis, MO	Wing splice ream frame	545,600		4,575	20000	
10863650	McDonnell Douglas	St. Charles, MO	F-15A/B/C/D displays test sta. test pkg.	133,400	83			
10164639	Xebec-DIT/MCO	Kansas City, MO	B-52A automatic circuit analyzer	81,581	77			
10164639	Xebec-DIT/MCO	Kansas City, MO	B-52A automatic circuit analyzer	115,790	81			
10163865	Xebec-DIT/MCO	Kansas City, MO	B-52A automatic circuit analyzer	393,839	87			
2260423	Boeing	Wichita, KS	B-52 Electro optical test set	288,000	73	288		T3
475477	Boeing	Wichita, KS	Telescope assy. test set	219,145	74			
475484	Boeing	Wichita, KS	Tube assy. test set	359,085	74			
475505	Boeing	Wichita, KS	Sensor unit test set	380,685	75			
958439	Boeing	Wichita, KS	Camera tube test set	275,600	75			
1526632	Boeing	Wichita, KS	Viewing system test set	110,056	77	180		T3
10144485	Boeing	Wichita, KS	B-52G/H mirror assembly test set	437,393	77			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acq. Year	Volume (cu.ft.)	Weight (lbs.)	Dummy Variable
10361635	Boeing	Wichita, KS	B-52G/H cryogenic absorber set	261,737	77			
313444	Boeing	Wichita, KS	Refrig. sys. test set	304,960	81			
1526632	Boeing	Wichita, KS	Viewing system test set	110,056	81	180		T3
10857565	Boeing	Wichita, KS	AN/ASQ-176 avionics system tester	1,364,666	81	108		T3
10857927	Boeing	Wichita, KS	B-52B/H weapons preload tester	1,000,000	81			
10873438	Boeing	Wichita, KS	B-52G/H radar altimeter test set	200,150	81			
10842621	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	235,650	82			
10842623	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	239,155	82			
10842624	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	168,626	82			
10860726	Boeing	Wichita, KS	B-52 avionics system tester	1,000,000	82			
10862456	Boeing	Wichita, KS	B-52 test adapter	250,295	82			
10842621	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	235,650	83			
10842623	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	239,155	83			
10842624	Boeing	Wichita, KS	B-52G/H ITA for AN/USM-479 test set	168,626	83			
10862456	Boeing	Wichita, KS	B-52 test adapter	250,295	83			
10880903	Boeing	Wichita, KS	AN/ASM-479 software divlpmnt sta. B-52G	103,000	83			
10857927	Boeing	Wichita, KS	B-52B/H weapons preload tester	1,000,000	84			
10860726	Boeing	Wichita, KS	B-52 avionics system tester	1,000,000	84			
11034426	Boeing	Wichita, KS	B-52G/H electronic circuit test set	931,120	84			
11420760	Boeing	Wichita, KS	B-52 AN/ASQ-151/ASQ-176 LRU tester	200,000	84			
11034426	Boeing	Wichita, KS	B-52G/H electronic circuit test set	931,120	85			
11513066	Boeing	Wichita, KS	Radar power frequency test set	580,952	86	1,152		T1
11556841	Boeing	Wichita, KS	KC-135 acft. jig	825,874	87			
1265544	LTV Aerospace	Dallas, TX	Flight control sys. test set	529,723	81	96		T3
10790474	LTV Aerospace	Dallas, TX	A-7E alignment boresight set	111,770	86			
1851384	LTV Aerospace	Dallas, TX	Armament control test set	219,227		68		
4194012	LTV Aerospace	Dallas, TX	Inertial measurement unit test set	1,057,177		102		
10667998	Texas Instruments	Dallas, TX	APQ-162 indicator group test bench	178,430	80			
10923114	Texas Instruments	Dallas, TX	F-4G automatic test system	1,545,000	82			
10648507	Texas Instruments	Dallas, TX	AN/AAQ-9 FLIR infrared detecting set test station	311,881	83			
10656626	Texas Instruments	Dallas, TX	Infrared collimator for AN/AAQ-9	127,310	83			
1632951	GD-FI. Worth	Fl. Worth, TX	F-111D acft. AGE ITA	117,632	72			
1757834	GD-FI. Worth	Fl. Worth, TX	F-111D acft. AGE ITA	471,426	72			
1757843	GD-FI. Worth	Fl. Worth, TX	F-111D AN/APQ-130 ITA	110,036	72			
4808826	GD-FI. Worth	Fl. Worth, TX	F-111D/FB-111 AGE ITA	602,811	72			
4819949	GD-FI. Worth	Fl. Worth, TX	F-111D AGE ITA	105,222	72			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
89399	GD-Fl. Worth	Fl. Worth, TX	F-16B-111 AGE ITA	1,116,218	75			
1636040	GD-Fl. Worth	Fl. Worth, TX	Analog module test sta.	1,085,345	75			
10598955	GD-Fl. Worth	Fl. Worth, TX	F-16A/B digital module test station	799,156	79			
10795663	GD-Fl. Worth	Fl. Worth, TX	F-16B-111A/E/D/F analog module test cons.	1,837,269	79			
10613498	GD-Fl. Worth	Fl. Worth, TX	F-16 ECM interface test adapter	113,278	80			
10616562	GD-Fl. Worth	Fl. Worth, TX	F-16 SRU/analog test sta. ITA	113,160	80			
10554829	GD-Fl. Worth	Fl. Worth, TX	F-16A/B inertial nav. adapter unit	126,503	81			
10617617	GD-Fl. Worth	Fl. Worth, TX	F-16 flaperons maintenance fixture	257,447	81	232		T4
10625781	GD-Fl. Worth	Fl. Worth, TX	F-16 actl. maintenance fixture	334,189	81	239		T4
10611012	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	113,573	82			
10611013	GD-Fl. Worth	Fl. Worth, TX	F-16 interface test adapter, multiplex	113,601	82			
10613499	GD-Fl. Worth	Fl. Worth, TX	F-16 CPU interface test adapter	113,963	82			
10617226	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	114,026	82			
10625780	GD-Fl. Worth	Fl. Worth, TX	F-16A/B actl. maintenance fixture	468,962	82	201		T4
10625782	GD-Fl. Worth	Fl. Worth, TX	F-16 actl. maintenance fixture	319,925	82	65		T4
10645028	GD-Fl. Worth	Fl. Worth, TX	F-16A/B test adapter	118,867	82			
10647963	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	112,585	82			
10688955	GD-Fl. Worth	Fl. Worth, TX	F-16 actl. maintenance fixture	174,391	82	1.68		T4
10688956	GD-Fl. Worth	Fl. Worth, TX	F-16 actl. maintenance fixture	174,178	82	500		T4
10697802	GD-Fl. Worth	Fl. Worth, TX	F-16 MW test sta. ITA	172,395	82			
10700229	GD-Fl. Worth	Fl. Worth, TX	F-16 actl. maintenance fixture	100,142	82	0.23		T4
15296	GD-Fl. Worth	Fl. Worth, TX	Display test sta.	150,000	83			
10467602	GD-Fl. Worth	Fl. Worth, TX	F-16 fuel tank servicing stand	125,970	83	1.41		T4
10588571	GD-Fl. Worth	Fl. Worth, TX	F-16 microwave test station	1,000,000	83			
10598955	GD-Fl. Worth	Fl. Worth, TX	F-16A/B digital module test station	799,156	83			
10600209	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	186,948	83			
10744049	GD-Fl. Worth	Fl. Worth, TX	F-16A canopy maintenance fixture	176,689	83	166		T4
10746656	GD-Fl. Worth	Fl. Worth, TX	F-16A/B actl. maintenance fixture	157,557	83			
10749310	GD-Fl. Worth	Fl. Worth, TX	F-16A canopy maintenance fixture	367,728	83	105		T4
10776689	GD-Fl. Worth	Fl. Worth, TX	F-16 RF test adapter	101,569	83			
10834940	GD-Fl. Worth	Fl. Worth, TX	F-16 avionics interface adapter cable	136,637	83			
10862267	GD-Fl. Worth	Fl. Worth, TX	F-16 MW test sta. ITA	100,000	83			
10896203	GD-Fl. Worth	Fl. Worth, TX	F-16A/B programmer verifier	177,266	83	27		T1
11005916	GD-Fl. Worth	Fl. Worth, TX	F-16A/B stabilizer transportation fixt.	103,000	83			
11072369	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	316,184	83			
11072370	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	591,757	83			
10869507	GD-Fl. Worth	Fl. Worth, TX	F-16A/B test adapter for MW test sta.	564,398	84			
11109431	GD-Fl. Worth	Fl. Worth, TX	F-16 test station interface test adapter	220,351	84			
11114776	GD-Fl. Worth	Fl. Worth, TX	F-16 analog test station ITA	267,123	84			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
11114779	GD-Fl. Worth	Fl. Worth, TX	F-16 analog test station ITA	321,648	84			
11126956	GD-Fl. Worth	Fl. Worth, TX	F-16 ITA	232,873	84			
11126957	GD-Fl. Worth	Fl. Worth, TX	F-16 ITA	250,204	84			
11126958	GD-Fl. Worth	Fl. Worth, TX	F-16 ITA	279,624	84			
11126959	GD-Fl. Worth	Fl. Worth, TX	F-16 ITA	306,209	84			
11126960	GD-Fl. Worth	Fl. Worth, TX	F-16 ATS ITA	308,846	84			
11128797	GD-Fl. Worth	Fl. Worth, TX	F-16 AIS test sta. test adapter	224,924	84			
11128798	GD-Fl. Worth	Fl. Worth, TX	F-16 AIS test sta. test adapter	331,163	84			
11128799	GD-Fl. Worth	Fl. Worth, TX	F-16 AIS test sta. test adapter	271,646	84			
11128800	GD-Fl. Worth	Fl. Worth, TX	F-16 AIS test sta. test adapter	229,844	84			
11128801	GD-Fl. Worth	Fl. Worth, TX	F-16 AIS test sta. test adapter	230,397	84			
10598955	GD-Fl. Worth	Fl. Worth, TX	F-16A/B digital module test station	747,487	85			
10896203	GD-Fl. Worth	Fl. Worth, TX	F-16A/B programmer verifier	146,427	86	27		T1
11108041	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	181,775	86			
11108053	GD-Fl. Worth	Fl. Worth, TX	F-16A/B ITA	270,372	86			
11108054	GD-Fl. Worth	Fl. Worth, TX	F-16A/B ITA	287,746	86			
11108056	GD-Fl. Worth	Fl. Worth, TX	F-16A/B ITA	293,385	86			
11108058	GD-Fl. Worth	Fl. Worth, TX	F-16A/B ITA	221,693	86			
11114778	GD-Fl. Worth	Fl. Worth, TX	F-16 analog test station ITA	316,627	86			
11114779	GD-Fl. Worth	Fl. Worth, TX	F-16 analog test station ITA	319,102	86			
11150311	GD-Fl. Worth	Fl. Worth, TX	F-16 analog test set ITA	316,184	86			
11192207	GD-Fl. Worth	Fl. Worth, TX	F-16 digital module test station ITA	208,154	86			
11192208	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	208,555	86			
11194584	GD-Fl. Worth	Fl. Worth, TX	F-16 digital module test station ITA	251,585	86			
10617226	GD-Fl. Worth	Fl. Worth, TX	F-16 test adapter	43,601	87			T4
10617617	GD-Fl. Worth	Fl. Worth, TX	F-16 flapperons maintenance fixture	138,869	87	232		
92669	GD-Fl. Worth	Fl. Worth, TX	FB-111 AGE ITA	396,200				
1065336	GD-Fl. Worth	Fl. Worth, TX	Countermeasures test console	1,000,000		88		
1757833	GD-Fl. Worth	Fl. Worth, TX	F-111D actl. AGE ITA	541,514				
4600397	GD-Fl. Worth	Fl. Worth, TX	F-111E air data computer test sta.	209,280		68		
4808823	GD-Fl. Worth	Fl. Worth, TX	F-111D/FB-111 AGE ITA	686,215				
10415862	Page Avjet	San Antonio, TX	T-56 eng. run-up test stand	185,000	79			
10415863	Page Avjet	San Antonio, TX	TR-160 engine test stand	202,100	85			
10044177	SA-ALC	Kelly AFB, TX	Flight control system test set	198,878	76			
11023757	SA-ALC	Kelly AFB, TX	Engine test stand calibrator	129,138	80			
10678740	SA-ALC	Kelly AFB, TX	F-15 Kelly microwave tester	345,000	81			
10735220	SA-ALC	Kelly AFB, TX	F-100 eng. maintenance fixture	114,115	81			

NSN(FSC 492)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu. ft.)	Weight (lbs.)	Dummy Variable
11070116	SA-ALC	Kelly AFB, TX	J-79TF-56/F-100TF-39 eng test equip.	200,000	82			
10657678	SA-ALC	Kelly AFB, TX	Gyro test set	465,628	83			
10660281	SA-ALC	Kelly AFB, TX	Vertical gyro test system	1,000,000	83			
10664154	SA-ALC	Kelly AFB, TX	Gyro test set	364,378	83			
11344476	SA-ALC	Kelly AFB, TX	TF-39 eng. fuel pump test stand	176,800	84			
10204875	Martin Marietta	Denver, CO	Adapter for E-3A test set	200,000				
10668923	Hewlett-Packard	Loveland, CO	F/TF-15A test system controller	212,837	80	113		T3
10672021	Hewlett-Packard	Loveland, CO	F/TF-15A digital test station	225,175	80	107	2000	T3
10668923	Hewlett-Packard	Loveland, CO	F/TF-15A test system controller	212,837	82	113		T3
10672021	Hewlett-Packard	Loveland, CO	F/TF-15A digital test station	225,175	82	107	2000	T3
10598960	Abex-Jelway	Ogden, UT	F-16 power check pad noise suppressor	465,000	80			
3134063	Garrett	Phoenix, AZ	Starter & gearbox test set	332,000	79	255	3000	T3
3134063	Garrett	Phoenix, AZ	Starter & gearbox test set	332,000	82	255	3000	T3
5639018	Motorola	Scottsdale, AZ	Electronic systems test set	132,000	77	51		T3
5639018	Motorola	Scottsdale, AZ	Electronic systems test set	132,000	81	51		T3
1636043	Sperry	Albuquerque, NM	Avionic test sta.	497,100	82	98		T3
2457026	Hughes	Los Angeles, CA	Fire control tacan rx test set	245,000	67			
2457029	Hughes	Los Angeles, CA	Fire control tacan rf test set	125,000	67			
2726173	Hughes	Los Angeles, CA	Power supply tester	145,500	75	67		T1
2726181	Hughes	Los Angeles, CA	Power supply tester	193,400	75	100		T1
10067483	Hughes	Los Angeles, CA	Automatic circuit analyzer	110,000	75			
1780893	Hughes	Los Angeles, CA	Fire control test set ASQ-25	681,000	80			
10668922	Hughes	Los Angeles, CA	F/TF-15A radar modules test pkg.	216,275	80			
1780893	Hughes	Los Angeles, CA	Fire control test set ASQ-25	681,000	87			
2726173	Hughes	Los Angeles, CA	Power supply tester	145,500	87	67		T1
2726181	Hughes	Los Angeles, CA	Power supply tester	193,400	87	100		T1
10067483	Hughes	Los Angeles, CA	Automatic circuit analyzer	110,000	87			
3901414	Garrett-Airesearch	Torrance, CA	Computer calibrator test set	177,276	75			
10725489	Garrett-Airesearch	Torrance, CA	F-16A/B acct. maintenance fixture	146,336	81			
10725490	Garrett-Airesearch	Torrance, CA	F-16A/B command servo test stand	129,285	81	62		T4
11216829	Garrett-Airesearch	Torrance, CA	RF/F-4C/D/E air data computer test set	176,398	84			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acq. Year	Volume (cu ft.)	Weight (lbs.)	Dummy
11513067	Garrett-Airesearch	Torrance, CA	B-52G/H air temp. control sys. test set	139,800	85	3.77		T3
11513067	Garrett-Airesearch	Torrance, CA	B-52G/H air temp. control sys. test set	139,800	87	3.77		T3
11689337	HR Textron	Valencia, CA	Hydraulic test station	728,429	84			
215127	Litton-G&C	Woodland Hills, CA	FB-111 acft. AGE	206,743	68			
663190	Litton-G&C	Woodland Hills, CA	RF-4C INS test set	159,746	69	264		X
11116848	Litton-G&C	Woodland Hills, CA	AN/AJQ-20 IBNS module test console	365,820	82			
11116849	Litton-G&C	Woodland Hills, CA	AN/AJQ-20 IBNS module test console	885,920	82			
11195271	Litton-G&C	Woodland Hills, CA	F/TF-15 INS test station	549,010	83			X
11219947	Litton-G&C	Woodland Hills, CA	LN-39 INS axis alignment test sta.	239,590	83	30		X
11219954	Litton-G&C	Woodland Hills, CA	LN-39 INS tester	159,700	83	36		
11579181	Litton-G&C	Woodland Hills, CA	Sid. INS gyro spin motor test sta.	258,994	83			
11599584	Litton-G&C	Woodland Hills, CA	A-10 INS accelerometer test station	192,095	84			X
11216742	Litton-G&C	Woodland Hills, CA	INS automatic platform test set	958,850	84	60		X
11219954	Litton-G&C	Woodland Hills, CA	LN-39 INS tester	159,700	84	36		
11578057	Litton-G&C	Woodland Hills, CA	Sid. INS gyro tuning test sta.	538,587	84			
11579181	Litton-G&C	Woodland Hills, CA	Sid. INS gyro spin motor test sta.	258,994	84			
11599584	Litton-G&C	Woodland Hills, CA	A-10 INS accelerometer test station	192,095	84			X
11216742	Litton-G&C	Woodland Hills, CA	INS automatic platform test set	958,850	85	60		
11578057	Litton-G&C	Woodland Hills, CA	Sid. INS gyro tuning test sta.	538,587	85			
11195271	Litton-G&C	Woodland Hills, CA	F/TF-15 INS test station	549,010	86			X
11216742	Litton-G&C	Woodland Hills, CA	INS automatic platform test set	958,850	86	60		X
11216815	Litton-G&C	Woodland Hills, CA	INS test set	2,306,500	86	93		X
11219954	Litton-G&C	Woodland Hills, CA	LN-39 INS tester	159,700	86	36		X
11578057	Litton-G&C	Woodland Hills, CA	Sid. INS gyro tuning test sta.	538,587	86			X
11587271	Litton-G&C	Woodland Hills, CA	LN39 INS gyro pulse torquer test sta.	2,375,695	86	33	500	X
663190	Litton-G&C	Woodland Hills, CA	RF-4C INS test set	159,746	87	264		
11590214	Litton-G&C	Woodland Hills, CA	F-15(LN31 INS) auto. platform test sys.	430,000	87			
138836	Litton-G&C	Woodland Hills, CA	ASQ-119 test sta.	135,875				
2045574	Litton-G&C	Woodland Hills, CA	INS test station	312,400			59	
8781339	Litton-G&C	Woodland Hills, CA	F-4D/E inertial nav. test bench	132,579				
10455905	Western Gear Corp.	City of Indus, CA	antenna drive gearbox test set	154,500	80			
10052683	GD-Pomona	Pomona, CA	F-111 electrical test sta.	137,931	78			
8812644	GD-Pomona	Pomona, CA	Computer test set	165,180	79			
10052682	GD-Pomona	Pomona, CA	F-111 electrical test sta.	170,000	81			
1355361	GD-Pomona	Pomona, CA	Computer (power) test set	124,230		35		

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu ft.)	Weight (lbs.)	Dummy Variable
11485482	Hughes	Carlsbad, CA	F-111 avionics automatic circuit tester	198,000	78	108		T3
11116220	Hughes	Ca. Isbad, CA	Automatic circuit tester	209,623	83			
11116222	Hughes	Carlsbad, CA	F-15 avionics automatic circuit tester	267,718	84			
11116222	Hughes	Carlsbad, CA	F-15 avionics automatic circuit tester	267,718	87			
681481	GD-Electronics	San Diego, CA	F-111 Flight control test sta.	440,000	75			
4492903	GD-Electronics	San Diego, CA	F-111 video test sta.	507,782	75	15		T3
2168963	GD-Electronics	San Diego, CA	Video test station	390,000	76			
12538598	GD-Electronics	San Diego, CA	Radio beacon test set	665,332	80			
10545641	GD-Electronics	San Diego, CA	F-16 Display indicator test sta.	665,332	81			
13548588	GD-Electronics	San Diego, CA	F-16 Inertial computer test set	665,332	81			
10573395	GD-Electronics	San Diego, CA	Pneumatic test station processor	665,232	81			
2168964	GD-Electronics	San Diego, CA	Video test station	580,362	82			
10468715	GD-Electronics	San Diego, CA	Test set selector-couplers	112,854	82			
10468717	GD-Electronics	San Diego, CA	Test set selector-couplers	129,489	82			
680725	GD-Electronics	San Diego, CA	Doppler radar test sta.	119,000	83			
1249415	GD-Electronics	San Diego, CA	Electronic circuit test set	424,493	83			
10468716	GD-Electronics	San Diego, CA	Test set selector-couplers	118,133	83			
10538598	GD-Electronics	San Diego, CA	Radio beacon test set	963,732	86			
10545641	GD-Electronics	San Diego, CA	F-16 Display indicator test sta.	665,332	86			
10548588	GD-Electronics	San Diego, CA	F-16 Inertial computer test set	665,332	86			
10573395	GD-Electronics	San Diego, CA	Pneumatic test station processor	916,047	86			
681482	GD-Electronics	San Diego, CA	Search radar video test sta.	390,000		250		
8300739	GD-Electronics	San Diego, CA	Computer test station	382,268				
8300740	GD-Electronics	San Diego, CA	Computer test station	501,961		120		
8507353	GD-Electronics	San Diego, CA	FB-111 indicator-sensors test sta.	279,026				
10962568	J. C. Carter Co.	Costa Mesa, CA	F-16 hydraulic power unit	273,568	84			
11155996	Ford Aerospace	Newport Bch., CA	AN/AVQ-25 (Pave Tack) LRU test station	154,000	83			
11484198	Ford Aerospace	Newport Bch., CA	AN/AVQ-26 Pave Tack mirror control tester	3,015,000	84			
10963252	ACL-Filco Corp.	Santa Ana, CA	F-16 servomotor test station	669,500	81			
10977371	ACL-Filco Corp.	Santa Ana, CA	F-16A/B servovalve test station	669,500	81			
782391	Rockwell-Electronics	Anaheim, CA	F-111 autonavigator test sta.	500,000	70			
10446186	Rockwell-Electronics	Anaheim, CA	F-111D/AG-130 radar test sta.	125,962	74			
10497574	Rockwell-Electronics	Anaheim, CA	F-111 AGERD prepost & preamp test sta.	200,000	78			

NSN(FSC 4920)	Manufacturer	Location	Description	Unit Cost (TY\$)	Acqn. Year	Volume (cu.ft.)	Weight (lbs.)	Dummy Variable
11221701	Ransco Ind.	Ornard, CA	B-52 AN/ASN-136 INS electronic module test sta.	308,000	84			
11221701	Ransco Ind.	Ornard, CA	B-52 AN/ASN-136 INS electronic module test sta.	308,000	86			
7580015	Carco Electronics	Menlo Park, CA	Radome boresight on F-102, F-105, F-106	769,430	82			
10463602	Litton-Itek	Sunnyvale, CA	AN/AL7246 receiver test stand	255,395	81			
10463602	Litton-Itek	Sunnyvale, CA	AN/AL7246 receiver test stand	167,018	82			
10463602	Litton-Itek	Sunnyvale, CA	AN/AL7246 receiver test stand	186,100	84			
10463602	Litton-Itek	Sunnyvale, CA	AN/AL7246 receiver test stand	186,000	85			
10488949	Watkins-Johnson	Palo Alto, CA	A-10A AGERD	772,500	80			
10488949	Watkins-Johnson	Palo Alto, CA	A-10A AGERD	772,500	87			
10205484	Kaiser Electronics	San Jose, CA	A-10A aircraft maintenance fixture	100,950	87			
10101346	SM-ALC	McClellan AFB, CA	4500 psi hydraulic pump and manifold sys.	375,488	79			
6182877	Boeing	Seattle, WA	Computer test set	102,360	76			
10245685	Boeing	Seattle, WA	E-3A rework tool	108,000	79			
10245691	Boeing	Seattle, WA	E-3A cargo door maintenance fixture	228,000	79			
10245907	Boeing	Seattle, WA	E-3A rework tool	180,000	79			
10255295	Boeing	Seattle, WA	E-3A main landing gear rework tool	130,000	79			
10520859	Boeing	Seattle, WA	E-3A electrical load control test adapter	121,100	80			
11123733	Boeing	Seattle, WA	Electro-optical test set	551,119	82			
11133246	Boeing	Seattle, WA	B-52 electronic systems test set	989,470	82			
11123733	Boeing	Seattle, WA	Electro-optical test set	551,119	83			
11133246	Boeing	Seattle, WA	B-52 electronic systems test set	989,470	83			
11133246	Boeing	Seattle, WA	B-52 electronic systems test set	989,470	85			